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Muhlenberg College .... Bulletin

ALLENTOWN, PA.

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CATALOGVE

1902-1903

Entered as second-class matter at the Post-Office, Allentown, Pa.

CATALOGUE

OF

MUHLENBERG COLLEGE

ALLENTOWN, PA.

FOR THE

THIRTY-SIXTH COLLEGIATE YEAR

1902-1903

ALLENTOWN, PA.
1903

Press of
J. B. Lippincott Company
Philadelphia, Pa.

Thomas Arkle Clark

COLLEGE CALENDAR.

1902–1903.

1902.

Sept. 4 ..... First Term began.
Nov. 27–30 ..... Thanksgiving Recess.
Dec. 17–19 ..... Semi-annual Examinations.
Dec. 19 ..... First Term ended; Christmas Vacation began.

1903.

Jan. 6 ..... Christmas Vacation ended; Second Term began.
Jan. 20 ..... Semi-annual Board Meeting.
Feb. 22 ..... Washington's Birthday.
Apr. 3–13 ..... Easter Recess.
May 18–20 ..... Final Examination of Senior Class.
June 11–12 ..... Examination of lower classes for promotion.
June 11–12 ..... Examination for admission to the college classes.
June 14 ..... Baccalaureate Sermon.
June 15 ..... Reception of the Senior Class, by the President.
June 17 ..... Junior Oratorical Prize Contest, at 10 A.M.
June 17 ..... Annual Board Meeting, at 1.30 P.M.
June 17 ..... Alumni Reunion, at 8 P.M.
June 18 ..... Commencement and Conferring of Degrees, at 10 A.M.
June 18 ..... Annual Meeting of the Alumni, at 2 P.M.

SUMMER VACATION.

1903–1904.

Sept. 3 ..... First Term begins; Entrance Examinations.
Nov. 26–29 ..... Thanksgiving Recess.
Dec. 16–18 ..... Semi-annual Examinations.
Dec. 18 ..... First Term ends; Christmas Vacation begins.

1904.

Jan. 5 ..... Christmas Vacation ends; Second Term begins.
Mar. 25–Apr. 4 ..... Easter Recess.
June 19–23 ..... Commencement Week.

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"Observations and Impressions in Norway."

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"Shafts of Light from a Dark Age."

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"The Effect of the Natural Sciences upon National Education."

JAMES YOUNG,

"A Defense of Shylock."

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Rev. Harry C. Kline.....Hamburg, Pa.
Rev. Frank C. Longaker.....Newport, Ky.
Rev. George C. Loos.....Philadelphia, Pa.
Prof. William H. S. Miller.....Allentown, Pa.
David A. Miller.....Allentown, Pa.
Samuel P. Miller.....Allentown, Pa.
Rev. Warren Nickel.....Applebachsville, Pa.
George S. Opp, Mus. B.....Philadelphia, Pa.
*Martin L. Trexler.....Bernville, Pa.
Rev. Frederick W. Wackernagel.....Rajahmundry, India.
Rev. Edwin S. Woodring.....Geneseo, Ill.
Rev. Charles D. Zweier.....Jersey Shore, Pa.

1895.

Rev. Victor J. Bauer.....Albuquerque, N. Mex.
Rev. Vitalis J. Becker.....Harland, Ind.
Rev. Preston A. Behler.....Grantville, Pa.

FORLEY EBERT.....Island Heights, N. J.
REV. WARREN J. ELLIS.....Philadelphia, Pa.
REV. LUTHER D. GABLE.....Flatbush, L. I., N. Y.
AMMON A. KILLIAN.....Port Royal, Pa.
REV. CHARLES E. KISTLER.....Reading, Pa.
REV. EDWARD H. KISTLER.....Reading, Pa.
REV. FREDERICK C. KRAPF.....Elizabeth, N. J.
REV. LUTHER D. LAZARUS.....Nazareth, Pa.
REV. PHILIP A. LENTZ.....Ellwood, Pa.
NEWTON T. MILLER.....Lancaster, Pa.
REV. HARRY P. MILLER.....Brooklyn, N. Y.
PROF. JOHN E. SANDT.....East Stroudsburg, Pa.
MORRIS E. SCHADT.....Schadts, Pa.
WILLIAM J. SCHMIDT.....Freeland, Pa.
REV. ELMER E. SNYDER.....Easton, Pa.
WELLINGTON J. SNYDER, ESQ.....Philadelphia, Pa.
JOSEPH H. STOPP, ESQ.....Philadelphia, Pa.

1896.

REV. WILLIAM PENN BARR.....Lititz, Pa.
PRESTON H. BREINIG.....Breinigsville, Pa.
REV. FREDERICK E. COOPER.....South Bethlehem, Pa.
REV. GEORGE W. GENSZLER.....Selinsgrove, Pa.
REV. GEORGE A. GREISS.....Allentown, Pa.
PROF. SAMUEL I. HENRY.....Boyertown, Pa.
MARCUS S. HOTTENSTEIN, ESQ.....Allentown, Pa.
REV. J. FREDERICK KRAMLICH.....Royersford, Pa.
OREN R. B. LEIDY, ESQ.....Allentown, Pa.
REV. MILTON U. REINHARD.....Allentown, Pa.
REV. JEREMIAH J. SCHINDEL.....Coplay, Pa.
JOSEPH C. SLOUGH, ESQ.....Allentown, Pa.
REV. JOHN F. SNYDER.....Reading, Pa.
GEORGE T. SPANG, ESQ.....Lebanon, Pa.
REV. WILLIAM A. STEINBICKER.....Brooklyn, N. Y.
REV. MARVIN H. STETTLER.....Reading, Pa.
REV. S. A. BRIDGES STOPP.....Doylestown, Pa.
REV. PAUL Z. STRODACH.....Easton, Pa.
REV. SAMUEL G. TREXLER.....Brooklyn, N. Y.
REV. L. DOMER ULRICH.....Danville, Pa.
REV. WILLIAM MARION WEAVER.....Lunenberg, N. S.
REV. EDGAR P. XANDER.....Weissport, Pa.
PROF. JOHN M. YETTER, PD.D.....East Stroudsburg, Pa.

1897.

Prof. Clinton J. Everett.....Plymouth, N. C.
Rev. William H. Fehr.....Pittsburg, Pa.
Rev. William K. Fisher.....Jonestown, Pa.
Rev. Franklin K. Fretz.....Quakertown, Pa.
Alfred S. Hartzell, Esq.....Allentown, Pa.
Rev. Wilmer F. Heldt.....Girardville, Pa.
Rev. Aaron Henry Klick.....Hegins, Pa.
Rev. Ira W. Klick.....Allentown, Pa.
Willard D. Kline, M.D.....Philadelphia, Pa.
Rev. William M. Kopenhaver.....Macungie, Pa.
George E. Kramlich.....Kutztown, Pa.
George F. Kuhl.....Allentown, Pa.
Rev. Henry K. Lantz.....Frankfort, Ind.
Rev. Gomer B. Matthews.....Lancaster, Pa.
Rev. Christian C. Miller.....Bath, Pa.
Rev. Francis Miller.....Philadelphia, Pa.
Rev. Ira O. Nothstein.....St. Peter, Minn.
Jay E. Reed.....Pillow, Pa.
Rev. Archibald C. Schenck.....North Wales, Pa.
Rev. H. Morris Schofer.....Pine Grove, Pa.
Rev. Edgar E. Sieger.....Avonmore, Pa.
John F. Stine.....Allentown, Pa.
John H. Sykes.....Allentown, Pa.
Jacob A. Trexler, M.D.....Shamrock Station, Pa.

1898.

Rev. Charles G. Beck.....Mahone Bay, N. S.
Rev. William A. Bilheimer.....Leechburg, Pa.
John T. Eckert, Jr.....Allentown, Pa.
George F. Erdman.....Allentown, Pa.
John S. Fegley, Phar.D.....Allentown, Pa.
Rev. Levi F. Gruber.....Utica, N. Y.
Rev. Henry F. Hehl.....Philadelphia, Pa.
Rev. William S. Heist.....Vandergrift Heights, Pa.
Rev. David C. Kaufman.....Beavertown, Pa.
Rev. Emile J. Keuling.....Perth Amboy, N. J.
Rev. Edwin L. Kistler.....Cross Roads, Pa.
Marvin L. Kleppinger.....Allentown, Pa.
Rev. Prof. George S. Kressley.....Kutztown, Pa.
Edwin T. Laubach.....Catasauqua, Pa.
Rev. George I. Lenker.....Allegheny, Pa.

Rev. Bernard Repass.....Emlenton, Pa.
Rev. Will E. Steckel.....Milroy, Pa.
Rev. John K. Sullenberger.....Quakake, Pa.
John P. Walter.....Newlin, Pa.
Rev. Wesley E. Wenner.....Danville, Pa.

1899.

Rev. Willis Beck.....Derry Station, Pa.
Rev. John Bender.....Hughestown, Pa.
Rev. James Berg .....Mt. Vernon, N. Y.
Rev. Frank N. D. Buchman.....Overbrook, Pa.
George John Case.....Hokendauqua, Pa.
Rev. D. Elmer Fetherolf.....Kempton, Pa.
Fred. A. Fetherolf, M.S., M.D.....Allentown, Pa.
Luther Warren Fritch.....Macungie, Pa.
F. Nathan Fritch.....Bethlehem, Pa.
John G. Hartley.....Philadelphia, Pa.
R. Keelor Hartzell, M.S., M.D.....Allentown, Pa.
Prof. Wm. A. Hausman, Jr., B.S., M.D..Allentown, Pa.
Rev. Edgar J. Heilman.....Wyndmoor, Pa.
Leidy B. Heist.....Limeport, Pa.
Rev. Jonas Oscar Henry .....Topton, Pa.
Rev. Jonathan A. Klick.....Pen Argyl, Pa.
Rev. John W. Koch.....North Water Gap, Pa.
Rev. John Kopp.....Liberty, N. Y.
Ambrose A. Kunkle.....Allentown, Pa.
Rev. Howard A. Kunkle.....Scranton, Pa.
Harry R. McCullough.....Allentown, Pa.
Edward Raker, Esq.....Shamokin, Pa.
Charles H. Reagle.....Stroudsburg, Pa.
Rev. Willoughby F. Rex.....Packerton, Pa.
Rev. William J. Seiberling .....Mulberry, Ind.
Ira C. Steigerwalt.....Allentown, Pa.
Peter S. Trumbower.....Nazareth, Pa.

1900.

Arthur G. Beck.....Allentown, Pa.
Frederick R. Bousch.....Allentown, Pa.
Elmer D. S. Boyer.....Vera Cruz, Pa.
George R. Deisher.....Topton, Pa.
Frederick L. Erb.....Slatington, Pa.
Charles K. Fegley.....Mechanicsburg, Pa.

Rev. Arthur G. Flexer.....Herndon, Pa.
Robert R. Fritsch.....Allentown, Pa.
Robert C. Horn.....Red Springs, N. C.
William M. Horn.....Reading, Pa.
Victor J. Koch, B.S.....Nazareth, Pa.
Paul G. Krutzky.....Philadelphia, Pa.
Franklin S. Kuntz.....Freeland, Pa.
Raymond W. Lentz.....Allentown, Pa.
Edgar C. Statler.....Allentown, Pa.
Harvey L. Straub.....Lehighton, Pa.
Lewis S. Trump.....Shartlesville, Pa.
Abraham B. Yerger.....Allentown, Pa.

1901.

Allen L. Benner.....Schoenersville, Pa.
Clarence Bickel.....Brooklyn, N. Y.
George H. Drumheller.....Philadelphia, Pa.
James M. Fetherolf.....Washington, D. C.
William P. Fetherolf.....Kempton, Pa.
Daniel W. Hamm.....Allentown, Pa.
Ralph E. Kline.....Allentown, Pa.
Raymond H. Kressler.....Allentown, Pa.
Harry S. Landis.....Allentown, Pa.
Irwin E. Nagle.....Allentown, Pa.
George L. Raether, B.S.....Allentown, Pa.
Fred. P. Reagle.....Hokendauqua, Pa.
George K. Rubrecht.....Philadelphia, Pa.
Percy B. Ruhe.....Allentown, Pa.
Irwin O. Schell.....Allentown, Pa.
Herbert J. Schmoyer, B.S.....Trexlertown, Pa.
John A. Schofer.....East Greenville, Pa.
Luther Serfass.....Gilbert, Pa.
Howard E. Shimer.....Nazareth, Pa.
Hiram F. Sieger.....Eckert, Pa.
Edward J. Wackernagel.....Allentown, Pa.
S. Martin Wenrich.....Reinholds, Pa.
J. Howard Worth.....Lancaster, Pa.
Thomas McH. Yoder, B.S.....Chicago, Ill.

1902.

Allen R. Appel.....Allentown, Pa.
Charles C. Bachman.....Northampton, Pa.

EFENGER A. BARTHOLOMEW.....Quakertown, Pa.
WALTER C. BECK.....Orwigsburg, Pa.
H. PHILEMON BRUNNER.....Reading, Pa.
GEORGE S. FEGELY.....Hamburg, Pa.
J. RALPHUS FREED.....Doylestown, Pa.
WILLIAM H. GABLE.....Numidia, Pa.
WARREN GEIGER.....Norristown, Pa.
CHARLES L. H. GLASE.....Oley, Pa.
MATTHIAS R. HEILIG.....Stroudsburg, Pa.
LEWIS A. INK.....Stone Church, Pa.
JACOB KISTLER.....Snyders, Pa.
QUINCY A. KUEHNER.....Little Gap, Pa.
ANSON W. LINDENMUTH.....Allentown, Pa.
THEODORE L. LINDENSTRUTH.....Wilkes-Barre, Pa.
RUSSELL B. LYNN, B.S.....Catasauqua, Pa.
MOULTON E. MCFETRIDGE.....Hokendauqua, Pa.
WILLIAM M. D. MILLER, B.S.....Columbia, Pa.
SAMUEL E. MOYER.....Catasauqua, Pa.
LAWRENCE H. RUPP.....Allentown, Pa.
JACOB F. SCHOLL.....Allentown, Pa.
FRANK M. UHRICH.....Lebanon, Pa.
JOSEPH L. WEISLEY.....Catasauqua, Pa.
JOHN M. WOODRING, B.S.....Allentown, Pa.
CLINTON ZERWECK.....Allentown, Pa.

Alumni, 532.

UNDERGRADUATES.

(The letter (s) indicates a student in the Scientific Course.)

SENIORS.

Harry E. Barndt	Sellersville, Pa.
Oliver R. Bittner	South Allentown, Pa.
Frank Croman	Quakertown, Pa.
Franklin T. Esterly	Pottsville, Pa.
John B. Geisinger	Quakertown, Pa.
Jacob D. Heilman	Allentown, Pa.
Erwin R. Jaxheimer	Bethlehem, Pa.
Roger C. Kaufman	Oley, Pa.
Edwin K. Kline	Allentown, Pa.
Melvin A. Kurtz	East Greenville, Pa.
Edward G. Leefeldt	Utica, N. Y.
R. Lorentz Miller	Emaus, Pa.
Paul J. Neff	Spring City, Pa.
H. E. Orff	Reading, Pa.
August W. Rohrig	Mauch Chunk, Pa.
William H. B. Roth	Allentown, Pa.
Robert Schlotter	Hellertown, Pa.
Irvin M. Shalter	Temple, Pa.
Harry W. Shimer	Shimerville, Pa.
Arthur L. Smith	Gouldsboro, Pa.
George W. Specht	Hokendauqua, Pa.
C. Daniel Trexler	Bernville, Pa.
Joseph M. Weaver (s)	Allentown, Pa.
Charles W. Webb	Allentown, Pa.
Mervin J. Wertman	Orefield, Pa.
Orlando S. Yerger	Perkiomenville, Pa.
Alvin E. Youse	New Jerusalem, Pa.

Seniors, 27.

JUNIORS.

Warren F. Acker	Allentown, Pa.
Mark L. Burger	Allentown, Pa.
Lawrence G. Deily	East Allentown, Pa.
Frank B. Dennis	Nazareth, Pa.
Milton M. Dry	Mifflinville, Pa.
Lee M. Erdman	Allentown, Pa.
Ellis W. Erney	Steinsburg, Pa.

JOHN C. FISHER.....North Heidelberg, Pa.
HANS S. GARDNER.....Quakertown, Pa.
BENTON W. H. GOLDSMITH.....Catasauqua, Pa.
LAWRENCE GRIESEMER.....Allentown, Pa.
CHARLES A. HAINES.....Slatington, Pa.
EUGENE M. HANDWERK.....Germansville, Pa.
MARTIN C. HOFFMAN.....Neffs, Pa.
WALTER J. HUNTSINGER.....Dushore, Pa.
WILLIAM H. KEBOCH.....Berrysburg, Pa.
J. FRANKLIN KELLER.....Alburtis, Pa.
WILLIAM R. KLECKNER.....Cementon, Pa.
E. GEORGE KUNKLE.....Lehighton, Pa.
PETER W. LEISENRING.....Allentown, Pa.
LAWRENCE R. MILLER.....Niantic, Pa.
FRANCIS E. REICHARD.....Macungie, Pa.
STILLE A. RENTZHEIMER (S).....Hellertown, Pa.
GEORGE H. RHODES.....Gouldsboro, Pa.
HORACE RITTER.....Allentown, Pa.
NORMAN Y. RITTER.....Pottstown, Pa.
GEORGE W. SHERER.....Allentown, Pa.
CHARLES A. SMITH.....Maxatawny, Pa.
DANIEL I. SULTZBACH.....Elizabethville, Pa.
MARTIN J. SWANK.....Hobbie, Pa.
ARTHUR L. WUCHTER.....Gilbert, Pa.

Juniors, 31.

SOPHOMORES.

DALLAS H. BASTIAN.....Wescoesville, Pa.
WINFIELD P. DE LONG (S).....Allentown, Pa.
†RAY E. DORNEY.....Allentown, Pa.
WIRT A. DRIES.....Shoemakersville, Pa.
HERBERT F. GERNERT (S).....Trexlertown, Pa.
GEORGE E. K. GUTH.....Allentown, Pa.
CHARLES G. HEFFNER.....Lyon Station, Pa.
JOHN J. HEILMAN.....Walberts, Pa.
CLARENCE E. KEISER.....Lyon Station, Pa.
I. HOWARD KERN.....Hummel's Store, Pa.
HARVEY S. KIDD.....Bath, Pa.
WILLIAM H. KLINE.....Maxatawny, Pa.
CHARLES T. KRIEBEL.....Allentown, Pa.
JOHN J. MARCKS.....Wescoesville, Pa.
CHARLES W. REINERT.....Coplay, Pa.

† Special.

Frank H. Reiter	Pennsburg, Pa.
Arthur F. Ritter	Freemansburg, Pa.
Robert K. Rosenberger (s)	Allentown, Pa.
Claude G. Shankweiler	Allentown, Pa.
George S. Spohn	Krumsville, Pa.
J. R. Tallman	Tower City, Pa.
G. Luther Weibel	Bowmansville, Pa.

Sophomores, 22.

FRESHMEN.

Thomas H. Bachman	Neffs, Pa.
Preston A. Barba	Allentown, Pa.
E. Max Beck	Boston, Mass.
Warren E. Bittner	Allentown, Pa.
John D. M. Brown	Lebanon, Pa.
Harry J. Butz	Breinigsville, Pa.
Earle T. Henninger	Eckerts, Pa.
Claude O. Hoffman	Allentown, Pa.
Paul C. H. Holter	Jersey City, N. J.
†William E. Horn	Allentown, Pa.
Carroll H. Hudders	Allentown, Pa.
August C. Karkau	Lansing, Mich.
Fred. G. Klotz	Northampton, Pa.
Fred. A. Kohler	Troutville, Pa.
Howard H. Krauss	East Greenville, Pa.
William J. Landis	Allentown, Pa.
Bryan W. Laros	Allentown, Pa.
Joseph Miller	Allentown, Pa.
G. Joseph Mueller	Lancaster, Pa.
Frank A. Neff	Slatington, Pa.
Harry J. Peters	Allentown, Pa.
Samuel H. Raub	Allentown, Pa.
J. Luther Reiter	Allentown, Pa.
Henry A. Reninger	Allentown, Pa.
Charles E. Rudy	Lancaster, Pa.
John W. B. Schantz	Shimersville, Pa.
†George W. Schell	Alburtis, Pa.
John S. Schneller	Catasauqua, Pa.
W. B. Smith	Shoemakersville, Pa.
Leidy B. Sterner	Richlandtown, Pa.
William K. Weiss	Allentown, Pa.
George A. Wessner	Allentown, Pa.

Freshmen, 32.

† Special.

STUDENTS OF THE ACADEMIC DEPARTMENT.

William H. Ainey, Jr	Allentown, Pa.
Harry A. D. Baer	Schnecksville, Pa.
Jacob W. Bittner	Allentown, Pa.
Walter C. Brady	Slatedale, Pa.
H. Leon Breidenbach	Philadelphia, Pa.
James A. Butterwick	Allentown, Pa.
Allen Vincent Carl	Roaring Creek, Pa.
William M. Davis	Allentown, Pa.
William F. Deibert	Lansford, Pa.
Roy Clifford Edwards	Allentown, Pa.
Charles W. Ettinger	Allentown, Pa.
Arthur F. Gerberich	Rittersville, Pa.
Henry James Helffrich	Allentown, Pa.
Aaron T. Lazarus	Coplay, Pa.
Homer D. Leh, Jr	Egypt, Pa.
Ray B. Levan	Lebanon, Pa.
Frank H. Marsh	Danielsville, Pa.
Carbin C. Miller	Coplay, Pa.
Preston T. Newhard	Allentown, Pa.
Robert E. Ochs	Allentown, Pa.
H. Earle Rixstine	Allentown, Pa.
Philip A. Sandt	Allentown, Pa.
Walter E. Schock	Mt. Zion, Pa.
James Myron Shimer	Allentown, Pa.
Warren W. Weber	Allentown, Pa.
Paul B. Wertz	Reading, Pa.
Paul W. Wieser	Allentown, Pa.

Academics, 27.

SUMMARY.

Seniors	27
Juniors	31
Sophomores	22
Freshmen	32
Academics	27
Total	139

COLLEGIATE DEPARTMENT.

TERMS OF ADMISSION.

Candidates for admission to the Freshman Class must sustain an examination in Greek Grammar, Greek Prose Composition, three books of the Anabasis; Latin Grammar, four books of Cæsar, four books of Virgil, four orations of Cicero; Orthography, Etymology, and Syntax of English, English Composition; History of the United States; Ancient and Modern Geography; Arithmetic, Wentworth's Higher Algebra through Quadratics; Wentworth's Plane Geometry, three books. Equivalents will be accepted for the authors named.

Applicants should have acquaintance with the grammatical forms of the German language, and with the elements of the Natural Sciences. They must have read books in English prescribed by the "Association of Colleges and Preparatory Schools in the Middle States and Maryland," or equivalents, and be prepared to be examined as to the same. The books set for General Reading are:

1903 and 1904. George Eliot's Silas Marner; The Sir Roger de Coverley Papers in the Spectator; Goldsmith's Vicar of Wakefield; Scott's Ivanhoe; Shakespeare's Merchant of Venice; Tennyson's Princess; Coleridge's Rime of the Ancient Mariner; Shakespeare's Julius Cæsar; Lowell's Vision of Sir Launfal; Carlyle's Essay on Burns.

For Special Study:

1903 and 1904. Shakespeare's Macbeth; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Burke's

Speech on Conciliation with America; Macaulay's Essays on Addison and Milton.

The requirements for admission to the Freshman Class of the Scientific Course are the same as those for the Classical with the exception of Greek, which is not required of candidates for the Scientific Course.

Candidates for advanced standing, in addition to the above requirements, must sustain a satisfactory examination in the various branches which the class they propose to enter has pursued.

An accurate and thorough acquaintance with the studies required for admission is indispensable in order to receive full advantage of the College course. A very important year in an education is the one preceding admission to College, and upon the fidelity of tutor and student then will largely depend the success of the latter in attaining an exact and comprehensive scholarship.

No student will be received whose moral character is not known or attested to be good, and those coming from other institutions must bring certificates of regular and honorable dismissal.

Applicants will be received upon these conditions at any time, but are urged to present themselves for examination either at the regular time appointed, at the close of the College year, or promptly at the opening of the term in September.

THE CLASSICAL COURSE.

Leading to the Degree of A.B.

FRESHMAN CLASS.

GREEK.—Xenophon (Goodwin). Cebes' Tablet (Parsons). Herodotus (Mather). Greek Prose Composition (Arnold). Greek Grammar (Goodwin).

LATIN.—Cicero's Orations and Letters (Johnston). Roman Life in Latin Prose and Verse (Peck and Arrowsmith). Livy's History (Lord). Latin Prose Composition (Allen). Latin Grammar (Allen and Greenough). Historical School Atlas (Putzger).

GERMAN.—Grammar (Joynes-Meissner). Wackernagel's Reader I. The German Church Book. Declamations and Exercises in Writing.

ENGLISH.—The Forms of Discourse (Cairns), with lectures. The English Language (Meiklejohn). Literary Selections (Swinton). Essays. Declamations.

HISTORY.—Biblical History and Geography (Blaikie). Ancient Universal History (Fisher).

MATHEMATICS.—Algebra (Wentworth's Higher). Geometry (Wentworth, latest revised edition).

PHYSIOLOGY.—Human Body (Martin).

ZOOLOGY.—Comparative Zoology (Orton).

PHYSICAL EDUCATION AND HYGIENE.

SOPHOMORE CLASS.

GREEK.—Plato's Apology and Crito (Wagner). Orations of Lysias (Whiton). Greek New Testament. Greek Prose Composition (Arnold). Etymology of Latin and Greek.

LATIN.—The Odes and Epodes of Horace (Chase and Stuart). Selections from Cicero's Correspondence (Kirtland). Cicero's De Senectute or De Amicitia. Latin Prose Composition (Allen). Latin Literature (Wilkins).

GERMAN.—Grammar (Joynes-Meissner). Wackernagel's Reader II. Classic Texts. The German Bible. Compositions. Declamations.

ENGLISH.—The Principles of Argumentation (Baker). History of English Literature (Simonds), with lectures. Old English (Cook). Piers Plowman. Essays. Declamations.

HISTORY.—Mediæval Universal History (Fisher). Church History (Trabert). Bible Literature (Haas).

MATHEMATICS.—Solid and Spherical Geometry (Wentworth). Plane and Spherical Trigonometry, Surveying, and Navigation (Wentworth). Conic Sections, Analytical Geometry (Wentworth).

PHYSICS.—Text-book of Physics (Watson).

BOTANY.—New Botanist and Florist (Wood). Plant Analysis (Groff).

PHYSICAL EXAMINATION.

JUNIOR CLASS.

PSYCHOLOGY.—Elements of Psychology (Hill), with lectures.

NATURAL THEOLOGY.—Text-book and lectures.

GREEK.—Homer (Keep). Demosthenes de Corona. Prometheus, or Agamemnon of Æschylus, or Alcestis of Euripides, or the Œdipus Tyrannus of Sophocles. Greek and Roman Literature and Biography.

LATIN.—Satires, Epistles, and Ars Poetica of Horace. Cicero de Oratore, or Cicero de Natura Deorum (Chase

and Stuart). Original Latin Prose Composition. Latin Selections (Smith). Latin Literature (Mackail).

German.—MacMillan's Composition. Wackernagel's Reader III. Classic Texts. Declamations, Essays, Speeches, and Debates.

English.—Logic (Jevons-Hill). American Literature (Pattee). Chaucer. Spenser. Original Speeches. Extemporaneous Debates. Dissertations.

History.—History of England (Larned). Modern Universal History (Fisher). Sacred History (Kurtz).

Mathematics.—Analytical Geometry (Wentworth). Differential and Integral Calculus (Loomis).

Pedagogy.—History of Education (Painter or Compayre). Educational Psychology (Sully's Hand-book).

Physics.—Text-book of Physics (Watson).

Chemistry.—Laboratory Work in Qualitative Analysis (Noyes). Elements of Chemistry (Heissler and Smith), with experiments.

SENIOR CLASS.

Religion.—Moral Science (Gregory). Evidences of Christianity (Fisher). Analogy of Religion (Butler). Luther's Catechism (Mann and Krotel). The Augsburg Confession.

Political Science.—The American Government (Hinsdale). American Politics (Johnson). Introduction to Economics (Bullock).

Hebrew.—Hebrew Grammar (Mannheimer), with Practical Exercises.

Greek.—Phædo of Plato (Wagner). The Antigone, or Ajax of Sophocles. Greek New Testament. Greek Archæology.

Latin.—Tacitus. Juvenal. Persius. Plautus or Ter-

ence. Original Latin Prose Composition. Roman Archæology.

GERMAN.—German Anthology (Steger). History of Literature (Koenig's Abriss). Luther's Writings (Becker). Declamations. Essays. Speeches. Debates.

ENGLISH.—Shakespeare. Milton. Original Speeches. Extemporaneous Debates. Dissertations.

PEDAGOGY.—Methodology (Compayre's Lectures on Pedagogy).

METEOROLOGY.—Elements of Meteorology (Davis).

ASTRONOMY.—General Astronomy (Young, latest revised edition).

MINERALOGY.—Laboratory Work in Blowpipe Analysis and Determinative Mineralogy (Moses and Parsons).

GEOLOGY.—Introduction to Geology (Scott).

Thomas Arkle Clark

THE SCIENTIFIC COURSE.

Leading to the Degree of B.S.

FRESHMAN CLASS.

LATIN.—Cicero's Orations and Letters (Johnston). Roman Life in Latin Prose and Verse (Peck and Arrowsmith). Livy's History (Lord). Latin Prose Composition (Allen). Latin Grammar (Allen and Greenough). Historical School Atlas (Putzger).

GERMAN.—Grammar (Joynes-Meissner). Wackernagel's Reader I. The German Church Book. Declamations and Exercises in Writing.

ENGLISH.—The Forms of Discourse (Cairns), with lectures. The English Language (Meiklejohn). Literary Selections (Swinton). Essays. Declamations.

HISTORY.—Biblical History and Geography (Blaikie). Ancient Universal History (Fisher).

MATHEMATICS.—Algebra (Wentworth's Higher). Geometry (Wentworth).

PHYSIOLOGY.—Human Body (Martin).

GENERAL BIOLOGY.—Recitations and Laboratory Practice. Introduction to General Biology (Sedgwick and Wilson). Elementary Biology (Boyer).

ZOOLOGY.—Recitations and Laboratory Practice. Comparative Zoology (Orton). Elementary Zoology (Chapin and Rettger).

PHYSICAL EDUCATION AND HYGIENE.

SOPHOMORE CLASS.

LATIN.—The Odes and Epodes of Horace (Chase and Stuart). Selections from Cicero's Correspondence (Kirt-

land). Cicero's De Senectute or De Amicitia. Latin Prose Composition (Allen). Latin Literature (Wilkins).

GERMAN.—Grammar (Joynes-Meissner). Wackernagel's Reader II. Grauert's Conversation. The German Bible. Compositions. Declamations.

FRENCH.—Grammar and Reader (Fraser and Squair).

ENGLISH.—The Principles of Argumentation (Baker). History of English Literature (Simonds), with lectures.

HISTORY.—Mediæval Universal History (Fisher). Church History (Trabert). Bible Literature (Haas).

MATHEMATICS.—Solid and Spherical Geometry (Wentworth). Plane and Spherical Trigonometry, Mensuration, Surveying (Robinson). Conic Sections, Analytical Geometry (Wentworth).

VERTEBRATE ANATOMY.—Recitations and Laboratory Practice. Comparative Anatomy of the Vertebrates (Wiedersheim).

PHYSICS.—Text-book of Physics (Watson).

BOTANY.—New Botanist and Florist (Wood). Plant Analysis (Groff). Physics and Botany alternate.

JUNIOR CLASS.

PSYCHOLOGY.—Elements of Psychology (Hill), with lectures.

NATURAL THEOLOGY.—Text-book and lectures.

GERMAN.—MacMillan's Composition. Classic Texts. Wackernagel's Reader III. Declamations, Essays, Speeches, and Debates.

ENGLISH.—Logic (Jevons-Hill). American Literature (Pattee). Chaucer. Spenser. Original Speeches. Extemporaneous Debates. Dissertations.

HISTORY.—History of England (Larned). Modern Universal History (Fisher). Sacred History (Kurtz).

Physics.—Text-book of Physics (Watson).

Histology.—Practical Histology (Stirling).

Chemistry.—Elements of Chemistry (Heissler and Smith). Laboratory Work in Qualitative Analysis (Noyes).

Botany.—Plant Structures (Coulter).

SENIOR CLASS.

Religion.—Evidences of Christianity (Fisher). Analogy of Religion (Butler).

German.—German Anthology (Steger). History of Literature (Koenig's Abriss). Luther's Writings (Becker). Declamations. Essays. Speeches. Debates.

Political Science.—The American Government (Hinsdale). American Politics (Johnson). Introduction to Economics (Bullock).

English.—Shakespeare. Milton. Original Speeches. Extemporaneous Debates. Dissertations.

Astronomy.—General Astronomy (Young).

Meteorology.—Elements of Meteorology (Davis).

Physiology.—Text-book (Foster).

Human Anatomy.—Text-book (Gray).

Embryology.—Text-book (Hertwig).

Mineralogy.—Laboratory Work in Blowpipe Analysis and Determinative Mineralogy (Moses and Parsons).

Geology.—Introduction to Geology (Scott).

Organic Chemistry.—Text-book (Remsen).

SCHEDULE 1902–1903.

		FRESHMAN.		SOPHOMORE.	
		CLASSICAL.	SCIENTIFIC.	CLASSICAL.	SCIENTIFIC.
MONDAY	10	Bible History.	Bible History.	Geometry I, Trigonometry II, III.	Geometry I, Trigonometry II, III.
	11	Rhetoric and Composition.	Rhetoric and Composition.	Botany I, III, Physics I, II.	Botany I, III, Physics I, II.
	1				
	2				Vertebrate Anatomy.
	3	Algebra.	Algebra.	Latin.	Latin.
	4	Latin Society.		Latin Society.	
TUESDAY	9	Greek Prose.		Greek.	
	10	German.	German.	Greek Prose.	
	11	Geometry.	Geometry.	English.	English.
	1				
	2				Vertebrate Anatomy.
	3	Algebra.	Algebra.	German.	German.
WEDNESDAY	9		Gen'l Biology I, Zoology II, III.	English.	English.
	10	German.	German.	Geometry I, Trigonometry II, III.	Geometry I, Trigonometry II, III.
	11	English.	English.	Latin.	Latin.
	1				
	2	Literary Society Exercises.			
	3		Gen'l Biology I, Zoology II, III.		
	4				
THURSDAY	9	Greek.		Bible Literature I, Church History II, III	Bible Literature I, Church History II, III
	10	Latin.	Latin.	Greek.	French.
	11	English.	English.	German.	German.
	1				
	2				Vertebrate Anatomy.
	3	Latin.	Latin.	General History.	General History.
	4				
FRIDAY	9	German.	German.	Botany I, III, Physics I, II.	Botany I, III, Physics, I, II.
	10	Latin.	Latin.	German.	German.
	11	Physiology I, Zoology II, III.	Physiology I, Zoology II, III.	Geometry I, Trigonometry II, III.	Geometry I, Trigonometry II, III
	1				
	2				
	3	Zoological Demonstration, General History.	General History.	Latin.	Latin.
	4	Physical Education.	Physical Education.		
SATURDAY	9	Greek.		Declamations I, Original Speeches II.	
	10		Gen'l Biology I, Zoology II, III.		
	11				

I indicates the period from September to Christmas.
II " " " " Christmas to Easter.
III " " " " Easter to June.

SCHEDULE 1902–1903.

		JUNIOR.		SENIOR.	
		CLASSICAL.	SCIENTIFIC.	CLASSICAL.	SCIENTIFIC.
MONDAY	10	English History.	English History.	Latin.	
	11	Pedagogy.	Pedagogy.	German.	German.
	1				
	2	German Literary Society Exercises.		Geology II, III. Mineralogy I.	Geology II, III
	3	German.	German.		
	4	Latin Society.		Latin Society.	
TUESDAY	9	Sacred History.		Greek.	Organic Chemistry.
	10	Greek.	Histology.	Economics.	Economics.
	11	German.	German.	Pedagogy.	Pedagogy.
	1				
	2			Geology.	Geology.
	3	Latin.			
WEDNESDAY	9	Physics.	Physics.	German.	German.
	10	English.	English.	Latin.	
	11	General History.	General History.	Hebrew.	Bacteriology III, Physiology I, II.
	1				
	2	Literary Society Exercises.			
	3				
	4				Human An'y I, II, Embryology III.
THURSDAY	9	Logic I, Amer. Lit. II, III.	Logic I, Amer. Lit. II, III.	Moral Science.	
	10	Natural Theology.	Natural Theology.	Politics.	Politics.
	11	Latin.	Botany.	Butler's Analogy I, II, Evidences of Christianity III	
	1				
	2				
	3	General Chemistry I. Analytical Chemistry II, III.	General Chemistry I.	Meteorology I, Astronomy II, III.	
	4				
FRIDAY	9	Anal. Geometry I, Calculus II, III.		English.	English.
	10	Psychology.	Psychology.	Greek.	Physiology.
	11	Greek.		German Literary Society Exercises.	
	1				
	2				
	3	General Chemistry I. Analytical Chemistry II, III.	General Chemistry I.	Meteorology I, Astronomy II, III.	
	4				
SATURDAY	9			Luther's Catechism.	Organic Chemistry.
	10	Original Speeches and Debates I, II.		Original Speeches and Debates I, II.	
	11				
	1				
	2		Histology.		

DEPARTMENTS OF INSTRUCTION.

RELIGION.

Believing an intellectual without a spiritual training to be a grave error, Muhlenberg College strives, throughout its entire course, to secure not only a proper study of religion, as a science, but also a consistent practice of it. Convinced also that a vague, general religious knowledge is ineffectual, it imparts and inculcates its instructions loyally and specifically, according to the standards of the Confessions of the Church which has founded and endowed it. The work of each day is begun with worship in the Chapel, attendance at which is expected. Attendance upon the morning service of some specified church on the Lord's Day is also required, while connection with Sunday School, as scholar or teacher, is recommended. Frequent occasion is taken in the routine of recitation or the opportunities of discipline to emphasize the dignity, worth, and duty of Christian character and Church membership.

Formal instruction in this department begins with Biblical History, Church History, and the Greek New Testament. In the higher classes Sacred History, Christian Evidences, Butler's Analogy, and Luther's Catechism with comments, conclude the course. Students whose spirit is alien to Christianity, or whose deportment is manifestly hostile or insidiously injurious, are neither desired nor permitted to remain whenever this fact is demonstrated by their conduct.

MORAL SCIENCE.

Moral truths are imparted in the lower classes as opportunity arises from the sentiments of authors, ancient and modern, read in the course of linguistic and literary study;

the aim of the Faculty being to make their individual work supplement and strengthen, not antagonize or weaken, the influence or training of the other departments. In the upper classes, Natural Theology and Ethics proper are taught by means of text-books and lectures, or instruction additional to those of the manual employed. Accountability to God is made the basis of duty to man and of accountability for self; the religious and moral aspects are therefore kept constantly in view of each other.

MENTAL SCIENCE.

Logic and Psychology are given a full proportion of the student's hours during his collegiate course. Already in his earlier years in the study of Rhetoric the student's attention is directed to the art of reasoning, as well as to the nature of the intellect, by the correction of vague or false philosophical statements in recitation replies, or in his literary exercises. After the drill of mathematical studies in the first two years has prepared him for closer thought and attention, Logic and Mental Philosophy enter into the course, in the Junior year.

The aim of instruction is to be thorough, intelligible, inspiring. All that can be asked in this direction in an undergraduate course is most carefully and patiently performed; more is neither pretended nor intended.

SOCIAL SCIENCE.

Convinced of the danger a republic must incur if its citizens, especially its otherwise educated citizens, are ignorant of the principles and applications of Social Science, Muhlenberg College extends the study thereof throughout the last two years of the course. The rise of free institutions and constitutional law is pointed out and enlarged upon in the study of History; the principles of Political

Economy are acquired, and their application is then made to our National situation, questions of the present time being discussed and the conflicting views as to their solution set impartially before the student. The Constitutional History of the United States is taken up at the Colonial Charter and continued down to the last amendment of the National Constitution. The political history of the Nation is reviewed, and reference given to such works as are accessible for further information; debates are planned upon propositions involving original research or collocation of scattered authorities. While questions still forming in part the hostile issues of existing political parties are, of necessity, touched upon, care is taken to teach them abstractly, and as far as possible free from any spirit or intention of partisan propagandism.

HEBREW.

An elementary course in Hebrew, although an optional study for the student in general, is intended especially for those preparing for a theological course. The acquisition of grammatical forms, familiarity therewith, and the ability to do the exercises of a simple chrestomathy are all that the course offers.

GREEK.

Muhlenberg College has not lost faith in the value of linguistic studies in general, nor of the classical Greek and Latin in particular. It fails to comprehend a degree of A.B. that has "little Latin and less Greek" implied in it. From the beginning of its career it has given full right and place to the modern languages, but it does not propose to abridge the place and privilege of the ancient tongues.

The course in Greek embraces a careful drill in the forms and accidents, the prosody and syntax, etymologies and

synonyms, and is made to contribute its part to philological training. Instruction is given also as to the literature and the biographical facts needed for a proper comprehension of the work assigned. The previously acquired knowledge of the student in ancient geography and the history of Greece is tested, refreshed, and amplified.

LATIN.

What has been said of the Greek is substantially true of the Latin department. As so much larger an infusion of words directly or indirectly derived from this language is found in the English vocabulary, a still more considerable philological and comparative use is made of it. Reading at sight and much rendering from English into Latin are especially emphasized as a sequence to the drill of the Prose Composition text-book.

The authors and the quantities, read in Latin and Greek, are those usually found in the course of an American college of good grade.

GERMAN.

The study of the German Language and Literature has always been with us a regular part of the College course. The department is given its full proportionate share of time and attention, and stands upon the same basis, in this respect, as Greek, Latin, or English. German is taught both as a living tongue to be acquired as a medium of communication and as a classical treasure-house of scientific, theological, and literary material, the key to whose wealth must be owned and readily used by the post-graduate student. Our experience enables us to assert that any student of respectable intellect and industry can acquire the ready use of this language for conversation, business, or dis-

course, by embracing the advantages offered him in this department.

In addition to this practical study, a considerable portion of time is given to the direct study of German Literature, and of selected works of the greatest authors.

ENGLISH.

Experience shows that frequently least is known of that with which men think themselves to be most familiar. A thorough knowledge of the language we speak, day after day, is as needful as it is unusual. College instructors find applicants for admission, as a rule, poorly prepared in English, however carefully they have been drilled in mathematics and elementary science. Attention is called to this fact on the part of those preparing students for college. The college cannot do the work of teaching to spell, to punctuate, to read decently well, to express thought in simple but grammatical sentences; this must be done in the training school, or the most patient efforts to build upon the foundation which has been reasonably assumed to exist will fail.

The department begins work with simple, but fully illustrated lectures upon the art of composition. Invention, style, delivery, each in turn is thus discussed, illustrated, and required in exercises regularly recurring at frequent intervals. The philology of English is then studied, and selections from authors of the present century read for application of the principles learned, as well as for the quickening of thought and the enriching of the imagination. The history of English Literature, and also of American Literature, is part of the course. A series of carefully annotated text-books is studied, beginning with Piers Plowman and Chaucer, and ending with Shakespeare and Milton.

A short introductory study of Anglo-Saxon prefaces this series.

HISTORY.

Studies in History are directed first of all to the acquisition of a fair outline knowledge of Universal History, the contemporaneous relations of the different nationalities, and the main current of power influencing civilization as it passes from one dominant empire to another.

Next in order is the study of particular nationalities, notably the English and German, as most influential politically and religiously upon our national being, past and future. In this division of historical study attention is directed to the philosophy of history. In connection with the department of Religion, Sacred and Church History are carefully studied to supply that knowledge of facts, Biblical and churchly, so sadly lacking in some professions and learned callings, as well as among the uneducated masses.

RHETORICAL EXERCISES.

These are carried on partly under a professor's direction and partly in the College Literary Societies, the exercises of which are regarded as a part of the course. Membership in one of these Societies is consequently required of every student. The Freshman and Sophomore Classes are gathered together once a week to form an audience for that portion of their respective members which is required to read or declaim. Criticisms follow each performance; every student is called upon in regular succession as frequently as the size of the classes and the allotted time permit.

The Junior and Senior Classes form a separate audience, weekly, and are required to present original speeches, written out and previously corrected, alternating with de-

bates, a brief of whose argument is handed in, but whose phraseology must be extemporaneous.

LITERARY SOCIETIES.

Connected with the institution there are two Literary Societies whose exercises are regarded as a regular part of its curriculum. Every student is required to be a member of one or the other of these, the Euterpean or the Sophronian, and take part regularly in the exercises of the same. Debates, declamations, speeches, essays, and the like, are required in these societies, and familiarity with the application of parliamentary law is obtained. Excellent libraries belonging to these societies are accessible to the members, and from time to time are increased by liberal additions of current and standard literature. The sessions of the societies are held in their respective halls every Wednesday afternoon during term time, and attendance is obligatory upon the members. Neglect of duty in the Literary Society is regarded as a violation of college regulations, and subjects the offender to college discipline.

The Senior and the Junior Classes have formed societies for the cultivation of the German Language and Literature. These societies meet once a week. Exercises in Speeches and Debates are carried on exclusively in German, under the direction of the German professor. To encourage proficiency in this direction prizes consisting of German books, $25 in value, are presented by these societies to the members of the Sophomore and Freshman Classes excelling in German declamation at an annual contest held under the auspices of the German Societies.

A Latin Club also affords additional help in the study of the Latin Language and Roman Antiquities.

MATHEMATICS.

This department is fully represented during each year of the college course. The studies are more in quantity and extent than the average required in the ordinary classical course of most institutions and are nearly as extensive as those offered in undergraduate scientific courses. Ample space is provided for blackboard work and demonstration; frequent drills and a full understanding of all work submitted are required. The most modern and best text-books are used, or consulted, for improved methods or more ingenious demonstrations. The course closes with the mathematics of Astronomy. Practical work is done in Surveying, with instruments provided for the purpose, and the course in Astronomy is illustrated by the use of a good telescope.

PEDAGOGY.

This department offers a two years' course embracing the History of Education, Educational Psychology, Methodology, and a study of Educational Classics. The History of Education traces the development of pedagogic thought and theory from the earliest times to the present. This is followed by a study of Psychology with special reference to its relation to education. Under Methodology the educational value of the various subjects usually taught, the proper methods of teaching the same, and the most important questions of school management are discussed. The study of Educational Classics affords scope for criticism and exacts original work by the class. The course in this department is conducted by means of recitations from text-books, lectures, and original papers by the class.

PHYSICAL EDUCATION.

Recognizing the importance of a sound mind in a sound body, and of maintaining a good physical standard, the in-

stitution requires every student on entering to undergo a physical examination, which is repeated each year thereafter during the course, by the professor of this department. The result is registered, and a duplicate copy is given to the student, upon which is noted his condition, and the proper advice to overcome any weakness detected. Didactic lectures are delivered upon Anatomy, Physiology, and Hygiene, as pertaining to the health of the body. Classes are formed, and given instruction in exercises, under medical supervision; the desired object being not to make expert athletes, but to regard the health of the body as a necessary adjunct for the thorough attainment and enjoyment of a liberal education. For the Freshmen attendance upon these exercises is obligatory.

NATURAL SCIENCE.

Full and varied instruction is given in the Sciences. The department is not a specialty upon any one science, with but scant attention given to the rest, but is rounded out so as to provide for a good general foundation in all. Apparatus, cabinets, and laboratories have been provided to meet the needs of such a general course, and are regularly used in connection with class-room work. Field work in Geology and Botany is prosecuted during the proper season of the year; specimens are collected and, in Botany, mounted and named, as requirements of the studies pursued.

THE SCIENTIFIC COURSE.

This course is designed especially for students wishing to study medicine after completing the college course. It aims to meet the requirements for admission into our standard medical colleges, while at the same time it gives the student a good college education; and a satisfactory completion of the course leads to the degree of Bachelor of Science of Muhlenberg College.

Students taking the scientific course spend much of their time at practical work in the laboratory; and in connection with the laboratory practice each student is required to keep a careful record of his work in the form of notes and drawings, and to pass frequent examinations on this work as well as on text-book work done in connection with the practical work. The student makes his own dissections under the direction and supervision of the teacher and is trained in the methods of preparing and preserving material for microscopic study.

Each student is supplied with a compound microscope and with materials and reagents necessary for carrying on the work; but dissecting instruments, slides, covers, books, and other articles which remain the property of the student, he must supply for himself.

Those subjects which are given more prominence in the scientific than in the classical course, and those which belong exclusively to the scientific course, are here briefly noted.

GENERAL BIOLOGY.

This course introduces the student into the study of the structure and life processes of a living physical organism. Representative types of animals and plants are studied in

the laboratory, and the facts observed and noted by the student are further discussed and explained by teacher and text-book.

ZOOLOGY.

This follows the course in General Biology in the Freshman year, and the main feature of the work consists in the dissection and study of a number of animal types in connection with text-book work.

VERTEBRATE ANATOMY.

In this course special attention is given to the study of the higher groups of vertebrate animals, particularly the mammals. Dissections, demonstrations, and recitations are the important features of the work.

HUMAN ANATOMY.

The work done in this course covers Osteology, Syndesmology, and Myology. The student is thoroughly drilled in the knowledge of these subjects and is familiarized with the shape, structure, position, relation, and function of the bones, cartilages, ligaments, tendons, and muscles of the human body. To this end the student has access to a mounted as well as a disarticulated human skeleton and to manikins, models, and charts of the muscles and ligaments of the human body.

EMBRYOLOGY

The work in this subject is confined mainly to the study of the development of the human body from the fetus, and is carried on with the aid of microscopic preparations of the various embryonic stages and structures.

HISTOLOGY.

The normal tissues of higher animals are studied by means of microscopic sections. Each student in the course makes a number of preparations of his own and is supplied with a number of sections already prepared for mounting. These he mounts and retains as his own collection for study and future reference.

PHYSIOLOGY.

The study of Physiology is first taken up in the Freshman year in the general course given to both the classical and the scientific students. In the Senior year students of the scientific course make a more extended study of the subjects of Blood, Digestion, Respiration, Waste, Metabolism, and Nutrition. Most of the work in Physiology is recitation work.

CHEMISTRY.

Students in the scientific course spend more time in the laboratory than is required of classical students in the course in Qualitative Analysis. In addition to this a course of instruction in Organic Chemistry is given to scientific students.

BOTANY.

In connection with recitation work in the general course in Botany each student is required to collect and mount a leaf herbarium and a flower herbarium, the former to illustrate the various forms of leaves and the latter to furnish representative specimens of at least twenty-five orders of plants. In addition to this work scientific students devote one hour per week of their Junior year to the further study of Botany, this additional work being chiefly practical in nature.

GENERAL REMARKS.

Instruction is given exclusively by the professors; text-books are ordinarily employed, but freely supplemented. Students are encouraged to think for themselves, and to ask questions pertinent to the recitation, or seek additional information out of class hours. The recitation hours are chiefly in the morning, and are so arranged that young men from the vicinity can come from and return to their homes daily. A careful and just proportion of time is given to each department of study, so as to round out the course in all directions. The object of the institution is a thorough collegiate preparation for post-graduate study, a full, fair education for manhood in whatever direction its life-calling may extend. More or less than this, it does not believe to pertain to a "college education."

ORIGIN OF THE INSTITUTION.

This institution was originally called the *Allentown Seminary,* which name it retained until 1864, when, by an Act of the Legislature of Pennsylvania, it was incorporated with full collegiate powers under the title of the "Allentown Collegiate Institute and Military Academy." In the year 1867, its control passed into the hands of a board of trustees, chiefly members of the Evangelical Lutheran Church, who had the charter amended by the Court of Lehigh County, formed themselves into a joint stock company, named the institution MUHLENBERG COLLEGE, after the honored patriarch of the Lutheran Faith in this country, and established a full collegiate course of studies.

Subsequently the institution, by surrender of the stock, and with a charter amended by the proper Court, was put

under the direct control of the "Evangelical Lutheran Ministerium of Pennsylvania and adjacent States." Its trustees are now elected by that body.

LOCATION.

Allentown is beautifully located upon high grounds, a short distance from the confluence of the Jordan Creek and the Lehigh River, fifty-nine miles north of Philadelphia. Few locations combine in a more eminent degree the advantages of accessibility, healthfulness, beautiful surroundings, and adaptation for the pursuit of collegiate study.

The city has frequent and direct communications with New York, Philadelphia, Harrisburg, and the West, and, by the various railroads intersecting here, ready access to all parts of the surrounding country.

THE BUILDINGS.

The buildings of the institution are situated in the south-eastern part of the city, and surrounded by about five acres of ground devoted to its exclusive use. The accommodations for lodging the students are of the most convenient character; each room is intended for two persons, and has separate alcoves for single beds. The rooms are well ventilated and abundantly furnished with light; the halls and stairways are commodious; and all needful conveniences are carefully provided. The entire institution is supplied with steam heat.

The Chapel, Library, Laboratories, Recitation and Reading Rooms are within the college building.

GOVERNMENT.

The government is firmly but kindly administered. No unnecessary or arbitrary regulations have been introduced, but good order, obedience, and a general propriety of de-

portment are strenuously insisted upon, and no one persistently disobedient, or pernicious in his influence, will be retained upon any condition.

An entrance into the institution is considered an agreement, in good faith, to abide by its rules and regulations, and expulsion necessitated by disobedience or immorality a forfeiture of its advantages. It will, however, be the object of the officers and instructors, by their frequent counsel and friendly relations with the students, to avoid, if possible, the severer forms of discipline.

SPECIAL LECTURES.

A number of special lectures are delivered during the college year by persons eminent for ability in various directions; these are free to all students and alumni of the institution, and have been largely and profitably attended. The course for this year will be found in its proper place in the catalogue. This feature will be carefully maintained in the future as a source of instruction in specialties, recent topics of interest, and for general information upon subjects not embraced in the ordinary department work.

EXAMINATIONS.

All the classes are examined twice a year, and the results made to count as a proper factor in the class standing. A decimal system of notations is employed, and an average standing for the term, or year, below 75 necessitates either conditions or refusal to promote, just as the failure is special or general. In the Freshman year of the classical course, this grade of 75 must be made especially in Greek, Latin, and Mathematics, to ensure promotion. Until conditions imposed are made up, a student loses regular standing in his class.

TERM REPORTS.

Reports of standing in class, conduct, attendance, and the like, are sent to parents or guardians after each examination; and if necessary, special correspondence is had in the intervals. The disciplinary aim is to prevent and to cure, rather than to cut off without any such effort. Co-operation on the part of parents is requested and needed to make this effort successful; where that is withheld, very little can be done to guard against the evils incident to wayward and headstrong youth.

LIBRARIES.

Three Libraries are accessible to the student: The College Library and the Libraries of the Literary Societies. The former is mainly a reference library, and is supplied with Encyclopædias, Reviews, Dictionaries, Scientific and Philosophical works, which are augmented from time to time. It is opened regularly at stated hours, but books can be had in the interval by personal application to the librarian.

The College Library is increased regularly by purchases and continuously by donations, which are hereby gratefully acknowledged. Friends of the institution are solicited to donate suitable books to the library, as many have already done. All such donations will be acknowledged promptly by the librarian, Professor George T. Ettinger, to whom they should be addressed. Those from the following sources, during the past year, are hereby especially acknowledged:

Departments of the United States Government.
Departments of the Pennsylvania State Government.
Hon. C. J. Erdman.
Hon. Henry Green.
Princeton University.
Columbia University.
University of Pennsylvania.

The Pennsylvania-German Society.
The American Society for Extension of University Teaching.
The National Association of Wool Growers.
The American Protective Tariff League.
The Franklin Society.
The American Humane Society.
Pennsylvania Prison Society.
Hon. Albert K. Smiley.
University State of New York.
Peace Association of Friends.
Pennsylvania Society of New York.
James Love.
Rev. Frank C. Longaker, '94.
Rev. John Telleen.
Johns Hopkins University.
Hon. C. R. Lantz.
Rev. William K. Frick, D.D., '70.
Rev. Prof. William A. Sadtler, Ph.D., '83.
Julius F. Sachse, Litt.D.
Rev. G. A. Bruegel.
Clinton Rogers Woodruff.
Pennsylvania Society Sons of the Revolution.
The University Club of New York.
Civil Service Reform Association of Pennsylvania.
Hon. Chauncey M. Depew.
Hon. E. W. Carmack.
Scranton Public Library.
National Civil Service Reform League.
Washington and Jefferson College.
Orville Brewer Publishing Company.
National Municipal League.
Sound Currency Committee.
William Cowper Conant.

READING ROOM.

An association of teachers and students, called the "Franklin Society," to which any student may belong upon payment of a nominal fee, takes charge of the supply of magazines, weeklies, and daily papers desirable for information and recreation. The list of reading matter made accessible during the year is a large and varied one. The leading magazines, city dailies, illustrated weeklies, and the papers of the Lutheran Church, local papers from students' homes, and the papers of Allentown, are all on file. This room is open at all times except during the hours of study.

SCHOLARSHIPS.

Any individual or congregation contributing $1000 to the College will receive a permanent scholarship, which secures to the contributor, his assigns, etc., the perpetual right of educating one student in the institution free of expense for tuition.

The following is a list of donors having procured such scholarships:

Hon. S. A. Bridges, Allentown, Pa.
James K. Mosser, Allentown, Pa.
Andrew S. Keck, Allentown, Pa.
Thomas Keck, New York, N. Y.
Horatio Trexler, Reading, Pa.
William Saeger, Allentown, Pa.
Alfred G. Saeger, Allentown, Pa.
Charles Burkhalter, New York, N. Y.
Amos W. Potteiger, Reading, Pa.
Mrs. Sarah Miller, Allentown, Pa.
A. Stanley Ulrich, Esq., Lebanon, Pa., and Rev. Aaron Finfrock, Reading, Pa.
A. S. Shimer, Easton, Pa.

John Wagner, Hellertown, Pa.
William A. Arnold, Reading, Pa.
Samuel H. Kutz, Reading, Pa.
Robert H. Sayre, South Bethlehem, Pa.
Henry Stine, Fogelsville, Pa.
Jacob Fegely, Pottstown, Pa.
George H. Reinoehl, Lebanon, Pa.
Edward S. and Sarah Wertz, Reading, Pa.
Charles A. and Annie D. T. FonDersmith, Lancaster, Pa.

St. John's Evangelical Lutheran Church of Allentown, Pa., Trinity of Reading, Pa. (two); St. James's of Reading, Pa. (two); Emanuel's of Pottstown, Pa.

St. John's English Reformed Church, of Allentown, owns the *Frank Erdman Cooper scholarship,* given to it by C. W. Cooper, Esq., in memory of his son.

The *Luther P. Keller, Jr., Memorial scholarship,* of St. John's Ev. Lutheran Church, Philadelphia, Pa., was endowed by Luther P. Keller in memory of his son.

The *Henry S. Neff, M.D., Memorial scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by George Rugan Neff in memory of his son.

The *Frank Rugan Neff Memorial scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by Julietta S. Neff in memory of her son.

The *Henry Melchior Muhlenberg scholarship* was endowed by Mrs. Mary A. Rogers and Mrs. E. M. Bailey and her son James Muhlenberg Bailey, of New York, in honor of their ancestor, the Patriarch of the Lutheran Church in this country.

The *Henry and Anna Mary Romig Memorial scholarship* was endowed by Mrs. Isaac Fegely, of Pottstown, Pa., in honor of her parents.

The *Allentown High School scholarship* is vested in the Public School Board of Control of Allentown, and is open

annually to competition on the part of graduates of the High School.

The *Clemmie L. Ulrich scholarship* was left by bequest for the use of the Ev. Lutheran Ministerium of Pennsylvania.

It is hoped that others will follow these examples, and take individual, memorial, or congregational scholarships, as thereby the owner of such a scholarship, apart from educating his own family, will aid worthy and talented but poor young men in securing an education that may fit them for eminent usefulness, and the congregations may have in perpetual training those of their sons that seek the work of the Gospel ministry.

COLLEGE DAY.

By resolution, many of our congregations have already set apart one Sunday in each year as "College Day" for the presentation of the interests of the institution. May we not hope that this will become universal, and enlist especially the assistance of our alumni and friends in furthering the endowment of the College and attracting students to it? Correspondence upon this matter is earnestly invited by the college authorities.

CLASS PRIZES.

During the year the following prizes have been announced, competition for which is subject to the rules of the Faculty, and the assigning of which is in the hands of committees appointed for this purpose. The decision will be announced on Commencement day. Friends of the institution are urged to increase the number of these prizes, especially for the lower classes.

FOR THE SENIOR CLASS.

The *Amos Ettinger Honor Medal*, to be assigned to that member of the class having attained the highest average

grade during the year, in all his studies. Presented by Professor George T. Ettinger, Ph.D. ('80).

FOR THE JUNIOR CLASS.

The *Clemmie L. Ulrich Oratorical Prize.*—Twenty-five dollars to that member of the class making the best speech in English, as to manner and matter, at the Junior Contest. Presented by bequest of Clemmie L. Ulrich, Annville, Pa.

FOR THE SOPHOMORE CLASS.

The *Biological Prize.*—Ten dollars for the best examination on the laboratory work and text in Vertebrate Anatomy. Presented by Professor John Lear, M.D.

FOR THE FRESHMAN CLASS.

The *Biological Prize.*—Ten dollars to that student who obtains the best average in Zoology. The notation will be based on recitation average, best examination in systematic Zoology, and best collection of insects (including Arachnida and Myriapoda) properly labelled and classified. The collection to remain as the property of the museum. Competition open only to students in the general course. Presented by a friend of the college.

PHYSICAL CULTURE PRIZES.

A prize of ten dollars to the student excelling as to knowledge of subject and proficiency in drill in Physical Culture. Presented by Professor H. H. Herbst, M.D. ('78).

Also a prize of five dollars to that member of the Freshman Class excelling in the same. Presented likewise by Professor Herbst.

THE DEGREE OF A.M.

The degree of Master of Arts may be conferred in course, *on the written application* of graduates of the College, of

three years' standing, of good moral character, who have pursued liberal, professional, or scientific studies since graduation. When such studies have not been the regular occupation during these years, satisfactory evidence shall be given of diligence in literary pursuits, and a written or printed thesis submitted for examination by the Faculty. This degree is conferred upon the nomination of the Faculty.

COLLEGE EXPENSES FOR THE SCHOLASTIC YEAR.

Tuition	$50.00
Room rent, care, heat, for resident students	39.00
Rent, care, heat, for day students, with room privileges	19.50
Care and heat for day students, without room privileges	9.75
Board, washing, and light, about $3 per week	117.00

The charges for material and the use of instruments in the B. S. course are, for the Freshmen, $10.00; for the Sophomores, $15.00; and for the Juniors and the Seniors, $25.00. All Chemistry students, in both courses, are required to deposit with the Treasurer $5.00 for breakages in advance, to be refunded if not expended, in whole or in part, to the individual student.

In the General Course the Seniors pay $1.00 and the Juniors pay $2.00 for materials used.

The scholastic year, extending from the first Thursday of September to the Thursday preceding the last Thursday of June, is divided into three terms for the payment of these charges, which will be proportioned to the respective length of the terms.

The College charges of each term must be paid in advance.

No student will be allowed to recite with his class until he has shown the Professor a receipt from the College Treasurer, or a note from the same, stating that satisfactory arrangements for payment have been made.

The members of the Senior Class, at the beginning of the Third Term, pay to the Treasurer an extra fee of five dollars, which will be refunded in case of failure to graduate.

All students must furnish their own rooms.

Students board in town, but only at boarding houses approved by the Executive Committee and the Faculty.

ENDOWMENTS, BEQUESTS, AND DEVISES.

Higher education, in our country, rests largely upon a charitable basis. No institution offering a liberal education can be maintained by the moderate charges made for tuition. The increasing breadth given to such higher education, and the more exalted standard of architectural effect employed in collegiate buildings, increase enormously the resulting financial strain. No such institution can therefore keep abreast of this ever rising standard of the times without the steady increase of its endowment funds. Muhlenberg College has, in the past, been the recipient of a number of very generous gifts and endowments. But, for the reasons just assigned, it must most earnestly urge its friends and graduates to aid it in furthering its resources, endowing new professional chairs, founding scholarships, providing funds for the aid of worthy but indigent students, and the other constantly pressing needs of the institution. Attention is also called to the eminent propriety of making bequests to advance the prosperity and widen the usefulness of our institution. As it is important that testamentary papers should be carefully drawn and regularly executed, and our corporation name be written accurately, we append the following forms, respectively for personal property and real estate, indicating whether the bequest is for endowment or the general purposes of the College:

I give and bequeath to "Muhlenberg College," in Allentown, Pennsylvania, and its successors and assigns, forever,

the sum of Dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the uses and purposes of said College.

I give and bequeath a certain lot, situated (here described) to "Muhlenberg College," in Allentown, Pennsylvania, and to its successors and assigns, forever, for the uses and purposes of said College, according to the provisions of its charter.

THE ALUMNI ASSOCIATION OF MUHLENBERG COLLEGE.

PRESIDENT: Rev. J. C. Rausch, Allentown, Pa.

VICE-PRESIDENTS: O. F. Bernheim, Allentown, Pa., and D. A. Miller, Allentown, Pa.

CORRESPONDING SECRETARY AND TREASURER: Professor George T. Ettinger, Ph.D., Allentown, Pa.

RECORDING SECRETARY: Professor J. A. Bauman, Ph.D., Allentown, Pa.

BOARD OF MANAGERS: Professor George T. Ettinger, Ph.D., Dr. Howard S. Seip, and Reuben J. Butz, Esq.

The object of this Association is to cultivate friendly relations among the alumni and to promote the interests of Muhlenberg College.

Any graduate of Muhlenberg College may become a member by paying a membership fee of $1, and 50 cents annually thereafter.

It is urgently requested that as many of the alumni as possible join the Association, and thus assist in advancing the objects for which it has been established.

The annual meeting is held on Thursday afternoon of Commencement week.

Further information may be had from the Corresponding Secretary.

ACADEMIC DEPARTMENT.

ORGANIZATION.

By the action of the Board of Trustees this department has been so organized that, while it is a department of the College, its entire management is in the hands of its Principal.

THE DESIGN.

The design of this school is to prepare students for college, for teaching, for business, as well as to give them the practical education and culture necessary for the various pursuits of life.

ADVANTAGES.

1. Moderate terms.
2. Instruction under experienced teachers.
3. The student may pursue any branch for which he is prepared.
4. Students may enter at any time, and for those not entering at the regular time special rates will be made.
5. The classes are so arranged as to enable the Instructor to devote ample time to each student.
6. Special attention is given to the student in branches in which he may be deficient.
7. Certificates from the Principal of this department admit students into the Freshman Class without further examination.

DISCIPLINE.

The government of this department is entirely in the hands of the Principal. The discipline is mild but firm, and pupils will be dismissed whenever it may be necessary,

or when a longer continuance would be injurious to others. *The Principal prefers a well disciplined school, though small, to a disorderly one, even if larger.*

YOUNGER PUPILS.

Recent arrangements have been made to provide for pupils from nine to twelve years of age, as day scholars only, and non-residents in the college building, to prepare them for admission into the regular Academic classes. For further information as to this matter, apply to the Principal of the department.

REGULATIONS.

Students furnish their own rooms.

The school hours are from half-past eight to a quarter of twelve o'clock, A.M., and from half-past one to four o'clock, P.M., during which time all students must be present in the school-rooms unless excused by the Principal.

ACADEMIC EXPENSES FOR THE SCHOLASTIC YEAR.

Tuition	$40.00
Room rent, care, heat, for resident students	39.00
Rent, care, heat, for day students, with room privileges	19.50
Care and heat for day students, without room privileges	9.75
Board, washing, and light, about $3 per week	117.00

The scholastic year is divided into three terms for the payment of these charges, which will be divided accordingly and *must be paid in advance.*

COURSE OF INSTRUCTION.

FIRST YEAR.

Footprints of Travel (Ballou).
Orthography (Benedict).
Modern Geography (Frye).
Arithmetic (Milne).
Penmanship.
Latin (Collar and Daniell).
Composition and Declamation.
English Grammar (Maxwell).

Bible History (Weiskotten).

SECOND YEAR.

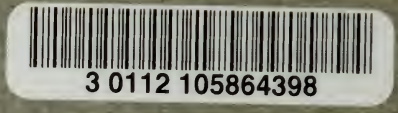
First Year Latin (Collar and Daniell).
Junior Latin Book (Rolf and Dennison).
First Greek Book (White).
English Grammar (Whitney & Lockwood) and Analysis.
Arithmetic (Milne).
Physical Geography (Appleton).
Book-keeping (Bryant and Stratton).
Mental Arithmetic (Brooks).
Reading (Monroe).
Orthography (Benedict).
History of United States (Montgomery).
Composition and Declamation.
Penmanship.
Algebra (Wentworth).
Zoology (Tenney).
Physiology (Walker).
General History (Anderson).

Bible History (Weiskotten).

THIRD YEAR.

Cæsar (Allen and Greenough).
Junior Latin Book completed.
Latin Grammar (Allen and Greenough) reviewed.
Virgil (Greenough).
Anabasis (Goodwin & White).
Greek Grammar (Goodwin).
History of Greece (Pennell).
History of Rome (Pennell).
Ancient Geography (Mitchell).
Review of English Grammar.
College Requirements in English Literature.
Physics (Steele).
Mythology (Berens).
Rhetoric (Butler).
Algebra (Wentworth's Higher).
Algebra (Olney).
Geometry (Wentworth).
Geometry (Chauvenet).
Arithmetic (Wentworth's Advanced).
German, Collar's Shorter Eysenbach (Curtis).
German Reader (Joynes).
Composition.
Declamation.
English History (Montgomery).

Bible Biography (Whitteker).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